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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/509,062	03/20/2000	JORG KOPP	P00.0345	7625

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EXAMINER

RYMAN, DANIEL J

ART UNIT PAPER NUMBER

2665

DATE MAILED: 04/16/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

B

**Office Action Summary**

Application No.

09/509,062

Applicant(s)

KOPP ET AL.

Examiner

Daniel J. Ryman

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 March 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 2 is/are pending in the application.
- 4a) Of the above claim(s) 1 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 March 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Specification*

1. The disclosure is objected to because of the following informalities: on page 1, lines 10 and 15 “1+1” is given two different descriptions. The “1+1” in line 10 should be “1:1”.

Appropriate correction is required.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rathgeb E P et al (“The MainStreetXpress Core Services Node-A Versatile ATM Switch Architecture for the Full Service Network” IEEE Journal on Selected Areas in Communications, Vol. 15, No. 5, June 1997, pages 795-806) in view of Virgile (USPN 5,608,726).
4. Regarding claim 2, Rathgeb discloses a communication device for transmitting message cells which each have routing information at their disposal (ATM cells) (page 795, col. 1, lines 1-2 under “Introduction”), the communication device comprising: a coupling arrangement (ASN) (Fig. 1; page 796, col. 2, lines 1-4; and pages 797-798, section B “ATM Switching Network (ASN)”; a plurality of line assemblies allocated to the coupling arrangement which are respectively connected to at least one transmission line (LIC) (Fig. 1; page 796, col. 1, lines 3-5 under “System Overview”; and pages 798-799, section C “Line Interface Circuits”); a changeover logic arrangement (Fig. 3: SE, central control) in the coupling arrangement (ASN)

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which is connected, at least in an outgoing direction of transmission, in series to the plurality of line assemblies (LIC) (Figs. 1 and 3; page 796, col. 2, lines 1-4; and page 797, col. 2, line 20 to page 798, col. 2, end of section B); and a storage arrangement (Fig. 3: SE, central memory) which is available to the changeover logic arrangement (Fig. 3: SE, central control) (Figs. 1 and 3; page 796, col. 2, lines 1-4; and page 797, col. 2, line 20 to page 798, col. 2, end of section B); the storage arrangement including a plurality of register cells which correspond to a number of possible different items of the routing information (Fig. 3: multicast lookup table which contains a bit map identifying specific outputs) and which can be individually controlled on the basis of the individual items of the routing information (multicast routing address) for delivering selection information (multicast information) which is respectively stored in the plurality of register cells (multicast address defines the bit map) (page 798, col. 1, line 5 to col. 2, line 4, esp. col. 2, lines 13-21 and lines 27-30), wherein the routing of message cells to the plurality of line assemblies is controlled in accordance with the selection information made available by the plurality of register cells instead of the routing information (multicast address used to define outputs instead of routing info.) (page 798, col. 1, line 5 to col. 2, line 4, esp. col. 2, lines 13-21 and lines 27-30). Rathgeb possibly does not expressly disclose that the selection information stored in the plurality of register cells can be individually modified; however, individual modification of entries in a table is well known in the art. For example, Virgile discloses, in a system employing multicast routing, having each entry in a multicast routing table be individually modified in order to allow only those entries that are involved in a modification to be changed (Fig. 5 and col. 8, lines 23-52, esp. col. 8, lines 45-50). It would have been obvious to one of ordinary skill in the art at the time of the invention to have the selection information

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stored in the plurality of register cells be individually modified in order to allow only those entries involved in a modification to be changes thus saving time and resources.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Ryman whose telephone number is (703)305-6970. The examiner can normally be reached on Mon.-Fri. 7:00-5:00 with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (703)308-6602. The fax phone numbers for the organization where this application or proceeding is assigned are (703)308-6743 for regular communications and (703)308-9051 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

Daniel J. Ryman  
Examiner  
Art Unit 2665

*DJR*

Daniel J. Ryman  
April 11, 2003



**HUY D. VU  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600**